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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/669,071

09/23/2003

Karim-Thomas Taghizadeh-Kaschani

WMP-IFT-965

2703

24131

7590

11/28/2006

LERNER GREENBERG STEMER LLP

P O BOX 2480

HOLLYWOOD, FL 33022-2480

EXAMINER

BAYARD, EMMANUEL

ART UNIT

PAPER NUMBER

2611

DATE MAILED: 11/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/669,071

Applicant(s)

TAGHIZADEH-KASCHANI, KARIM-THOMAS

Examiner

Emmanuel Bayard

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 12-14 is/are allowed.
- 6) ☒ Claim(s) 1-3 and 7-11 is/are rejected.
- 7) ☒ Claim(s) 4-6 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Moake U.S. Patent No 5,591,967.

As per claims 1 and 8, Moake teaches a receiver circuit for a push-pull transmission method, comprising: at least one first input for receiving a first input signal (see fig.2 element 28); at least one second input for receiving a second input signal (see fig.2 element 22); an output providing an output signal dependent on the first and second input signals (see fig.2 element 16); a detector circuit having a first signal detector connected to said first input (see fig.2 element 38 and col.6, lines 55-67) and a second signal detector connected to said second input (see fig.2 element 35 and col.7, lines 45-55), said first and second signal detectors comparing amplitudes of the first and second input signals in each case with a detection threshold and providing detector output signals including a first detector output signal from said first signal detector and a second detector output signal from said second signal detector (see col.4, lines 15-30 and col.6, lines 60-67 and col.7, lines 50-55), said first and second signal detectors each having a control input for setting the detection threshold, said control input of said first signal detector being coupled to an output of the second signal detector and said

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control input of said second signal detector being coupled to an output of said first signal detector; and a signal processing circuit connected to said detector circuit and receiving the detector output signals, said signal processing circuit generating the output signal according to the detector output signals (see fig.2 element 46 and col.7, lines 55-67).

As per claim 2, Moake teaches, wherein said first and second signal detectors have a first detection threshold or a second detection threshold according to a signal present at said control input (see fig.2 and col.6, lines 60-col.7, lines 55).

As per claim 3, Moake inherently teaches, wherein said first and second signal detectors are Schmitt triggers with an adjustable upper switching threshold.

As per claim 7, Moake teaches, wherein said first and second inputs are two of a plurality of inputs connected to said detector circuit, said detector circuit having a plurality of signal detectors each connected to one of said inputs, said control input of a respective one of said signal detectors having applied to it a signal dependent on output signals of other ones of said signal detectors (see figs. 2, 5).

As per claim 9, Moake inherently teaches further comprises increasing the detection threshold to the first value for comparing with the one signal after the other signal has reached the detection threshold having a third value.

As per claim 10, Moake inherently teaches which further comprises setting the first value to be greater than the second value.

As per claim 11, Moake inherently teaches which further comprises setting the third value to be less than the first and second values.

***Allowable Subject Matter***

3. Claims 4-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 12-14 are allowed over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter: wherein said signal processing circuit has an edge spacing evaluation unit for detecting predetermined edges of the detector output signals and provides further output signals dependent on the detector output signals and on a temporal spacing between a predetermined edge of the first detector output signal and a predetermined edge of the second detector output signal as recited in claims 4 and 12.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ludeman U.S. Patent No 6,519,322 B1 teaches an apparatus and method for testing subscriber loop.

Ishida et al U.S. Patent No 6,104,331 teaches a reproduced signal processing method.

Yoshida et al U.S. Pub NO 2002/0130698 A1 teaches a signal compensation circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272

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3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM)

Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571 272 2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Emmanuel Bayard  
Primary Examiner  
Art Unit 2611

11/26/06

  
**EMMANUEL BAYARD**  
**PRIMARY EXAMINER**